

Medición de la economía y comercio digital en Latinoamérica y el Caribe 8 al 11 de noviembre de 2022

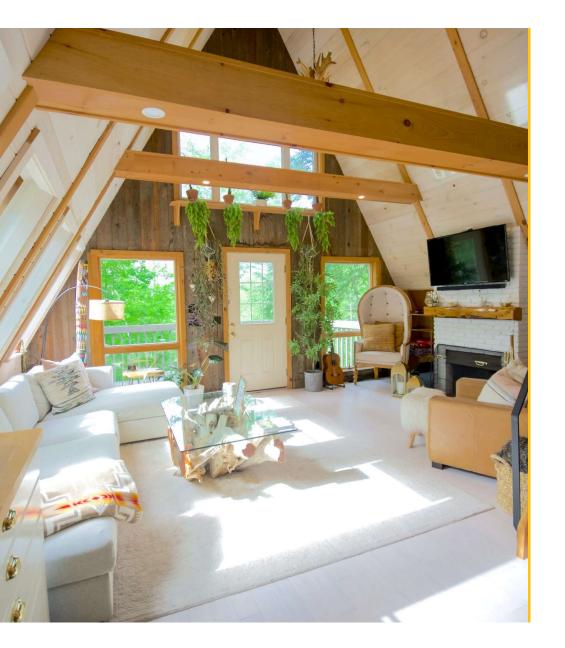
Sesión 7 El uso de datos de plataformas para las estadísticas de turismo

Simon Bley - EUROSTAT Unit G2

### Did you know that...

- In 2019, visitors from South and Central America spent 11.7 million nights in short term rental in the EU?
- Their most popular destinations were Spain, Italy and Portugal.

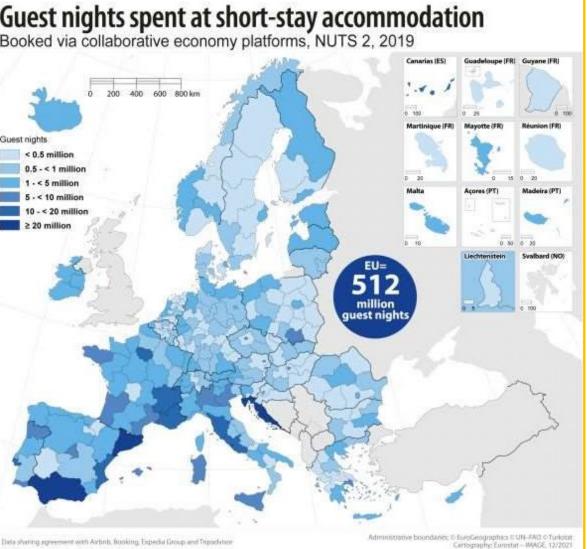




## Did you know that...

- In the first half of 2022, around 200 million guest nights were spent in apartments booked at Airbnb, Booking, Expedia or Tripadvisor?
- This means around 19 million bookings, or around 70 per minute.



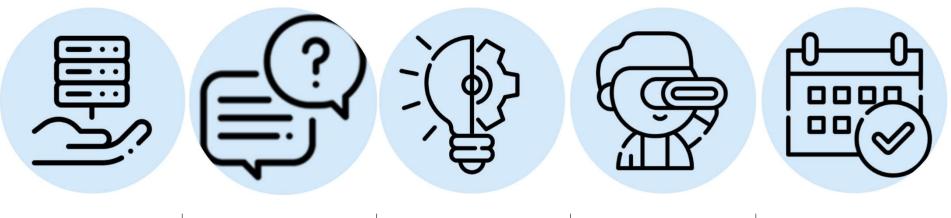


### Well, we know!



ec.europa.eu/eurostat

### Questions I will answer in the next 15'

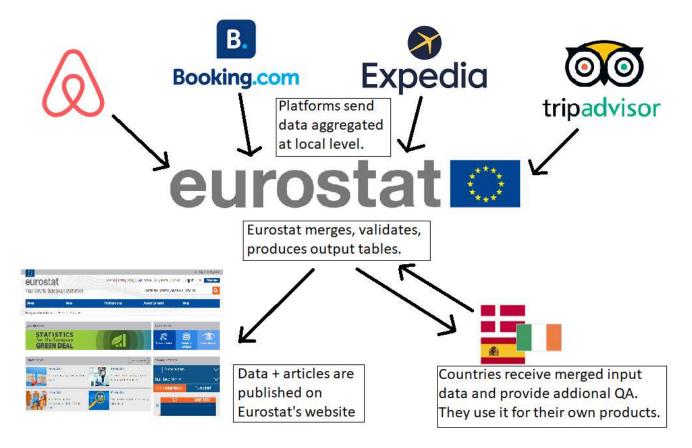


What? Which data are available? Why? What is the motivation? How? Agreements with the platforms Where? How can you access the data? What's next? Release calendar and next steps





### What? : Brief overview







## What? : type of available data

### The platforms share data on capacity and on occupancy

- ⇒ Number of **stays**, number of **nights spent**, number of **guest nights** (by year and month)
- ⇒ (Number of hosts, number of listings, number of bed places not yet published!)
- ⇒ Geographical breakdowns, including data at **cities** level (around 250 cities)
- ⇒ Shared vs. entire facility ; fewer than 10 beds vs. 10 beds or more
- ⇒ Not available: data on turnover or data on prices

### Output similar to the 'traditional' tourism statistics released by Eurostat

⇒ Additional geographical breakdowns of national interest published by NSIs

### Coverage: holiday and short-stay accommodation

⇒ Apartments, rooms, houses, villas, etc…

NACE 55.1 : Hotels and similar accommodation NACE 55.2 : Holiday and short-stay accommodation

NACE 55.3 : Camping grounds, trailer parks, etc.





## Why? : "raison d'être" of the project

### Data needs in tourism statistics

- ⇒ Better coverage of short-stay accommodation
- Small establishments (less 10 bed places) not well covered by tourism surveys or registers (but now: digital footprint via platforms!)
- ⇒ Policy makers need information on this 'new' segment of the tourist accommodation sector

### • Explore sharing of privately held data for statistical purposes

- ⇒ Expensive or infeasible to collect data from many households/small enterprises
- ⇒ Most information available with relatively few platforms
- Part of a wider Eurostat initiative on measuring the collaborative economy



### Success and failure in exploring privately held data

Platforms project [2015 – 2017] – first attempt(s)

- ⇒ Web-scraping, using existing results from eg. InsideAirbnb (late 2015) ⇔ impartiality?
- ⇒ First contacts with Airbnb (early 2016) ⇒ failed
  - We didn't talk to all the right people (only statisticians and Airbnb data scientists)
  - We were too greedy ("the ethnocentric approach of the spoilt official statistician")
- Platforms project [2018 …] second attempt
  - ➡ Multi-disciplinary group (data scientists, contracts dept., investor relations dept., public policy, lawyers) → eg. on "our" side: GROW + ESTAT production unit + ESTAT legal affairs
  - ⇒ Level playing field for the sector, also vis-à-vis the traditional accommodation sector
    → eg. not 1 but 4 platforms involved; requirements similar to those in Regulation 692/2011
  - ⇒ Balanced, negotiated demands (incl. NDAs as backbone of the cooperation)



## How? : Structure of the agreement

- Airbnb, Booking, Expedia and Tripadvisor send occupancy and capacity data aggregated at local level to Eurostat each quarter (and submit metadata)
- Eurostat merges and validates the data and produces:
  - Output data for various geographical aggregates (EU, Member States, regions, cities)
  - Merged "raw" files for NSIs for additional validation at national level and national data releases/articles/etc.
- NSIs and Eurostat disseminate the data and produce various articles, news releases, etc. based on it.



### ESS governance of the project : our little revolution $\widehat{\phantom{a}}$

### • A practical example of applying the **subsidiarity** principle

#### ⇒ 1950es until now: decentralised approach

Eurostat coordinates harmonisation of statistics in the EU, but fieldwork – including key methodological choices – usually happens decentralised in the Member States. This approach makes maximum use of the skills in the NSIs and of the NSI's proximity to eg. national registers or "survey culture" in the country

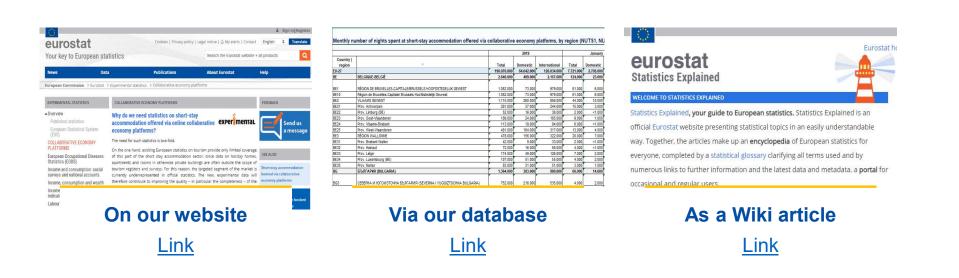
#### ⇒ Platforms project: centralised approach

General consensus by all stakeholders (Eurostat, NSIs, platforms) that the optimal approach is a "single entry", **coordinated effort by Eurostat**, in close cooperation with the NSIs and backed by a mandate of the NSIs as discussed at technical level (WG) and strategic level (ESSC, DGINS workshop in May 2019).





### Where? - How to access our content



https://ec.europa.eu/eurostat/web/experimental-statistics/collaborative-economy-platforms



### Where? – ES publication

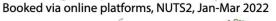


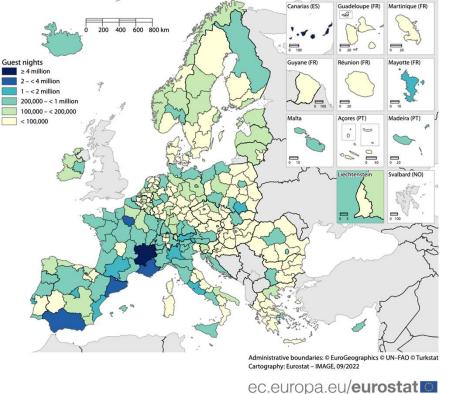
### https://www.ine.es/experimental/ocupacion/experimental\_ocupacion.htm?L=0



## Data teaser: First half of 2022

Guest nights spent at short-stay accomodation





- 199 million guest nights so far
- +138 % compared to 2021
- Feb-June levels exceed 2019
- High seasonality Alpine regions popular alongside the Mediterranean
- High variability across Europe



## **Top cities**



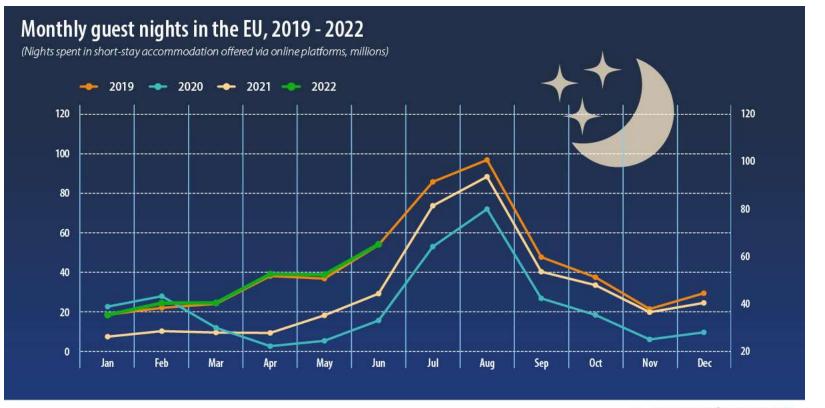
### Cities with the highest number of guest nights booked via collaborative economy platforms (2019)

City	Number of guest nights
Paris (greater city)	13 523 000
Barcelona (greater city)	11 028 000
Lisboa (greater city)	10 235 000
Roma	10 131 000
Madrid (greater city)	7 904 000
Budapest	6 819 000
Praha	6 512 000
Porto (greater city)	5 171 000
Wien	5 057 000
Nice	4 914 000
Athina (greater city)	4 554 000
Milano (greater city)	4 438 000
Berlin	4 221 000
Valencia (greater city)	4 078 000
Firenze	4 032 000
Sevilla (greater city)	3 949 000
Kraków	3 564 000
Venezia	3 517 000
Málaga	3 344 000
Warszawa	2 910 000
Dublin (greater city)	2 620 000
Napoli (greater city)	2 251 000
Split	2 230 000
Amsterdam (greater city)	2 224 000
København (greater city)	2 174 000
Bruxelles / Brussel (greater city)	2 110 000
Granada (greater city)	2 036 000
Gdansk	1 891 000
Marseille	1 741 000
Valletta (greater city)	1 730 000



European Commission

### Impact of the pandemic (1)



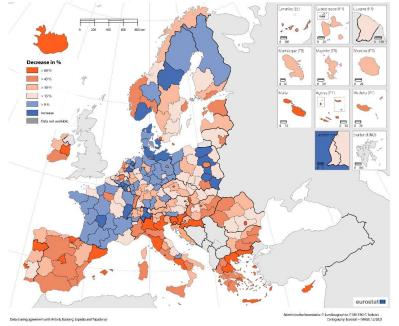
ec.europa.eu/eurostat



## Impact of the pandemic (2)

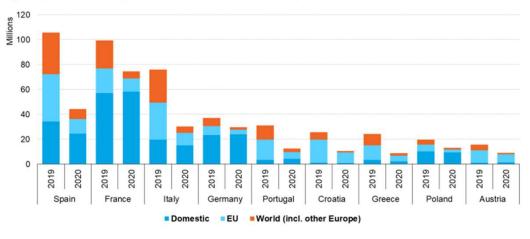
#### Guest nights spent at short-stay accommodation

Booked via online platforms, NUTS2, decrease between 2019 and 2020



#### Guest nights by origin of the guest, 2019 vs 2020

Nights spent in short-stay accomodation offered via online platforms



Source: Eurostat (Experimental statistics)

eurostat O

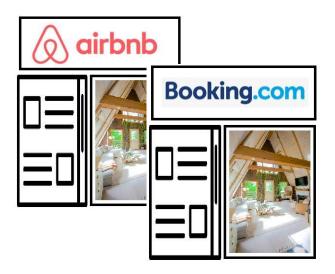
Regions were affected differently – countries with larger share of domestic tourism came off best.



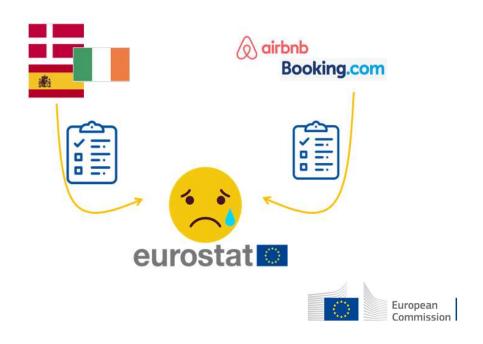
## What's next? - Current limitations



Double counting of listings
 => no capacity data



Double counting of stays
 => limited integration with other data



## **Double counting of listings**



- Hosts often advertise on multiple platforms to improve visibility
- Therefore, capacity date can not be simply summed up across platforms
- This is unfortunate, since capacity data is vital for policy makers and other users

- Eurostat has launched a platform (Web Intelligence Hub) to scrape sample data from the platforms
- Then: Match listings based on criteria such as listing text, images, locations
- Countries such as Finland and Spain have already experimented with this approach



## Double counting of stays



- Listings promoted via platforms may also be included in surveys conducted by the Member States
- This means that bookings may be counted twice!
- Limited comparability to other tourism statistics; full integration and indicator design currently not possible

- Eurostat is aiming to develop a deduplication methodology together with interested NSIs
- NSIs receive granular data at LAU level from Eurostat and:
- They have access to granular micro-data and to the relevant registers that can contribute to such a method



# Thank you

Data available at <a href="https://ec.europa.eu/eurostat/web/experimental-statistics/collaborative-economy-platforms">https://ec.europa.eu/eurostat/web/experimental-statistics/collaborative-economy-platforms</a>

#### Stay in touch: <u>Simon-Johannes.BLEY@ec.europa.eu</u>



© European Union 2022

Unless otherwise noted the reuse of this presentation is authorised under the <u>CC BY 4.0</u> license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Image credits: Slide 2: Álvaro Bernal via <u>Unsplash</u>, slides 3 & 18: <u>Pelayo Arbués via Unsplash</u>, slide 15: <u>Logan Armstrong</u>, <u>Aayush Gupta</u>, <u>Nicole</u> <u>Reyes</u> and <u>Tania Fernandez</u> via Unsplash, slide 21: <u>Javier Allegue Barros</u> via <u>Unsplash</u>

